

Tarnamid® T- 27 MT 20

Polyamide 6

Grupa Azoty S.A.

Message:

It is 20% mineral reinforced polyamide 6 compound, heat stabilised.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
Appearance	Black		
	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	90.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	0.80	%	
Flow : 2.00 mm	0.40	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	175	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5600	MPa	ISO 527-2/1
Tensile Stress (Yield)	72.0	MPa	ISO 527-2/5
Tensile Strain (Break)	6.0	%	ISO 527-2/5
Flexural Modulus ¹	4400	MPa	ISO 178
Flexural Stress ²	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	3.5	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature	221	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	24	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.90		IEC 60250
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Burning Rate	+		FMVSS 302
ISO Type	PA6, MHR, 14-050, MD20		ISO 1874
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Suggested Max Moisture	< 0.10	%	
Suggested Max Regrind	10	%	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	80.0 to 100	°C	
Injection Pressure	80.0 to 110	MPa	
Injection Rate	Moderate		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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